L7: Entry 7 of 14 File: USPT Nov 23, 1999

DOCUMENT-IDENTIFIER: US 5989904 A
TITLE: Selective inhibition of internally initiated RNA translation

DEPR:
In addition, the present disclosure enables modifications of host cells to inhibit expression or activity of I-RNA. In the first instance, introduction of such modifications will determine whether I-RNA activity is essential for survival of host cells which express such I-RNAs. In one approach, an RNA having a sequence complementary to the I-RNA (i.e., an "antisense I-RNA") is expressed in a host cell (e.g., yeast) which expresses an I-RNA molecule. The vector for expression of the antisense I-RNA contains a selectable marker gene (e.g., URA 3) to ensure that only transformed cells are recovered. If no transformed cells expressing antisense I-RNA are recovered, inducible expression constructs may be tested to determine whether the antisense RNA vector can be transformed into the cell in absence of antisense I-RNA expression and whether subsequent expression inhibits any cellular function(s). Alternatively, the I-RNA gene may be eliminated using gene "knock out" methodology known in the art. For instance, in yeast cells exogenous DNA introduced into the cell efficiently and stably integrates into chromosomal DNA by homologous recombination, allowing efficient replacement of a wildtype gene with a non-functional copy. Typically, the non-functional copy is generated by replacing wildtype coding sequences with a selectable marker gene (e.g., LEU or URA). Transformation of diploid cells may circumvent possible lethal effects if some I-RNA activity is required for cell viability. Yeast or other I-RNA-expressing host cells, or extracts thereof, which have reduced I-RNA activity as a result of either an antisense or gene knock out modification according to the invention, are useful for expression of mRNAs requiring IRES-dependent translation initiation. Also contemplated are yeast or other I-RNA host cells which can be modified by gene knockout methodologies, as known in the art, to remove the gene encoding La or homologs thereof to produce host strains that are permissive for expression of proteins whose synthesis is dependent upon internal initiation of translation.

DEPR:
Theoretically, the inhibitor RNA could inhibit IRES-dependent translation by two possible mechanisms: binding to UTR sequences as an antisense RNA or binding to protein factors needed for internal entry of ribosomes. To distinguish these two mechanisms, uniformly .sup.32 P-labeled inhibitor RNA probe

two mechanisms, uniformly .sup.32 P-labeled inhibitor RNA probe was prepared and mixed with HeLa S10 extracts, and the resulting RNA-protein complexes were analyzed by nondenaturing polyacrylamide gel electrophoresis.

WEST

Generate Collection

L7: Entry 9 of 14 File: USPT Sep 21, 1999

DOCUMENT-IDENTIFIER: US 5955318 A
TITLE: Reagents and methods useful for controlling the translation of hepatitis GBV proteins

BSPR:
It therefore would be advantageous to provide reagents and methods for controlling the translation of HGBV proteins from HGBV nucleic acids. Such reagents would comprise antisense nucleic acid sequences or other compound which may specifically destabilize (or stabilize) the IRES structure. Such nucleic acid sequences or compounds could greatly enhance the ability of the medical community to provide a means for treating an individual infected with GB virus(es). In addition, IRESs are among the most highly consereved nuclcotide sequences. Identification of such a sequence immediately suggests a target for probe-based detection reagents. Diagnostic or screening tests developed from these reagents could provide a safer blood and organ supply by helping to eliminate GBV in these blood and organ donations, and could provide a better understanding of the prevalence of HGBV in the population, epidemiology of the disease caused by HGBV and the prognosis of infected individuals. Additionally, these consereved structures may provide a means for purifying GBV proteins for use in diagnostic assays.

LIGHT set on as ''
HILIGHT set on as ''
? begin 5,6,55,154,155,155,156,312,39,biotech,biosci

WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences

Search Results -

Terms	Documents
IRES near10 antisense$	14

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Refine Search: IRES near10 antisense$ Clear

Search History

Today's Date: 9/6/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	IRES near10 antisense$	14	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	IRES near5 antisense$	7	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and inhibit$ near5 IRES near10 reporter$	1	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and inhibit$ near5 IRES	1	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and antisense near5 IRES	0	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and antisense	1	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5989904 [pn]	2	L1

WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences

Your wildcard search against 2000 terms has yielded the results below

Search for additional matches among the next 2000 terms

starting with: INHIBIT$(INHIBIT-INPUT).P28-P87,P89-P89,P23-P27,P20-P22,P1-P18,P19-P19.

Search Results -

Terms	Documents
IRES near10 inhibit$ and antisense$	13

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Refine Search: IRES near10 inhibit$ and antisense$ Clear

Search History

Today's Date: 9/6/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	IRES near10 inhibit$ and antisense$	13	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	IRES near10 antisense$	14	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	IRES near5 antisense$	7	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and inhibit$ near5 IRES near10 reporter$	1	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and inhibit$ near5 IRES	1	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and antisense near5 IRES	0	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and antisense	1	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5989904 [pn]	2	L1

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   Set  Items  Description
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? s hepatitis (n) A or HAV
Processing
Processing
Processing
Processed  10 of  38 files ...
Processing
Processing
Processed  20 of  38 files ...
Processing
Processed  30 of  38 files ...
Completed processing all files
          610468  HEPATITIS
        61789038  A
           58574  HEPATITIS(N)A
           12689  HAV
      S1   60916  HEPATITIS (N) A OR HAV
? s s1 and antisense
           60916  S1
          141760  ANTISENSE
      S2     109  S1 AND ANTISENSE
? s s2 and IRES
             109  S2
            5871  IRES
      S3       3  S2 AND IRES
? d s3/3/1-3
      Display 3/3/1     (Item 1 from file: 34)
DIALOG(R)File  34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

05540868   Genuine Article#: WF234   No. References: 45
Title: In vitro mutational and inhibitory analysis of the cis-acting
    translational elements within the 5' untranslated region of
    coxsackievirus B3: Potential targets for antiviral action of
    antisense oligomers
Author(s): Yang DC (REPRINT) ; Wilson JE; Anderson DR; Bohunek L; Cordeiro
    C; Kandolf R; McManus BM
Corporate Source: UNIV BRITISH COLUMBIA,ST PAULS HOSP, DEPT PATHOL & LAB
    MED, CARDIOVASC RES LAB, MCDONALD RES WING/VANCOUVER/BC V6Z 1Y6/CANADA/
    (REPRINT); UNIV TUBINGEN,INST PATHOL/D-72074 TUBINGEN//GERMANY/
Journal: VIROLOGY, 1997, V228, N1 (FEB 3), P63-73
ISSN: 0042-6822   Publication date: 19970203
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900,
    SAN DIEGO, CA 92101-4495
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

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?
      Display 3/3/2     (Item 1 from file: 98)
DIALOG(R)File  98:General Sci Abs/Full-Text
(c) 2001 The HW Wilson Co. All rts. reserv.

0045917    H.W. WILSON RECORD NUMBER: BGS199045917   (USE FORMAT 7 FOR
FULLTEXT)
eIF4 initiation factors: effectors of mRNA recruitment to ribosomes and
  regulators of translation.
Gingras, Anne-Claude
Raught, Brian; Sonenberg, Nahum
```

Annual Review of Biochemistry v. 68 (1999) p. 913-63
SPECIAL FEATURES: bibl il ISSN: 0066-4154
LANGUAGE: English
COUNTRY OF PUBLICATION: United States
WORD COUNT: 21787

- end of record -

?
Display 3/3/3 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2001 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

122123089 CA: 122(11)123089f PATENT
Methods for screening compounds for potential inhibitors of translation of viral RNAs for use as antiviral agents
INVENTOR(AUTHOR): Miles, Vincent J.; Mathews, Michael B.; Katze, Michael G.; Witherell, Gary; Watson, Julia C.
LOCATION: USA
ASSIGNEE: Ribogene, Inc.
PATENT: PCT International ; WO 9423041 A2 DATE: 941013
APPLICATION: WO 94US3623 (940401) *US 42024 (930402)
PAGES: 194 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/64A; C12N-015/62B; C12N-015/81B; C12N-015/85B; C12N-015/11B; C12N-009/12B; C12N-001/19B; C12Q-001/48B; C12Q-001/68B; A61K-048/00B
DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; ES; FI; GB; HU; JP; KP; KR; KZ; LK; LU; LV; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD; SE; SK; UA; UZ; VN DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR ; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML;

-more-

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Display 3/3/3 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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MR; NE; SN; TD; TG

- end of display -

? rd s2
...examined 50 records (50)
>>>Record 266:269585 ignored; incomplete bibliographic data, not retained - in RD set
...examined 50 records (100)
...completed examining records
S4 58 RD S2 (unique items)
? d s4/3/1-58
Display 4/3/1 (Item 1 from file: 5
DIALOG(P)File 5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

13127319 BIOSIS NO.: 200100334468
Relationships between the activities in vitro and in vivo of various kinds of ribozyme and their intracellular localization in mammalian cells.
AUTHOR: Kato Yoshio; Kuwabara Tomoko; Warashina Masaki; Toda Hirofumi; Taira Kazunari(a)
AUTHOR ADDRESS: (a)Dept. of Chemistry and Biotechnology, Graduate School of Engineering, University of Tokyo, Hongo, Tokyo, 113-8656: taira@chembio.t.u-tokyo.ac.jp**Japan
JOURNAL: Journal of Biological Chemistry 276 (18):p15378-15385 May 4, 2001
MEDIUM: print

ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

- end of record -

?
Display 4/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

10562672 BIOSIS NO.: 199699183817
Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein.
AUTHOR: Moradpour Darius; Englert Christoph; Wakita Takaji; Wands Jack R(a)
AUTHOR ADDRESS: (a)Molecular Hepatol. Lab., MGH Cancer Cent., 149 13th St., Charlestown, MA 02129**USA
JOURNAL: Virology 222 (1):p51-63 1996
ISSN: 0042-6822
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 4/3/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

10383901 BIOSIS NO.: 199699005046
Amplification of the full-length **hepatitis A** virus genome by long reverse transcription-PCR and transcription of infectious RNA directly from the amplicon.
AUTHOR: Tellier Raymond; Bukh Jens; Emerson Suzanne U; Purcell Robert H(a)
AUTHOR ADDRESS: (a)Hepatitis Viruses Section, Lab. Infectious Diseses, Natl. Inst. Allergy Infectious Diseses, Natl**USA
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 93 (9):p4370-4373 1996
ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 4/3/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

10221038 BIOSIS NO.: 199698675956
In vivo inhibition of hepatitis B virus gene expression by **antisense** phosphorothioate oligonucleotides.
AUTHOR: Moriya Kyoji; Matsukura Makoto; Kurokawa Kiyoshi; Koike Kazuhiko(a)
AUTHOR ADDRESS: (a)First Dep. Internal Med., Fac. Med., Univ. Tokyo, 7-3-1 Hongo, Bunkyu-ku, Tokyo 113**Japan
JOURNAL: Biochemical and Biophysical Research Communications 218 (1):p217-223 1996
ISSN: 0006-291X

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 4/3/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

09321307 BIOSIS NO.: 199497329677
In situ hybridization studies of **hepatitis A** viral RNA in patients with acute **hepatitis A**.
AUTHOR: Taylor Michael(a); Goldin Robert D; Ladva Suresh; Scheuer Peter J; Thomas Howard C
AUTHOR ADDRESS: (a)Dep. Histopathol., St. Mary's Hosp. Med. Sch., Norfolk Place, Paddington, London W2 1PG**UK
JOURNAL: Journal of Hepatology 20 (3):p380-387 1994
ISSN: 0168-8278
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 4/3/6 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

08936189 BIOSIS NO.: 199396087690
One-step RNA polymerase chain reaction for detection of hepatitis C virus RNA.
AUTHOR: Hu Ke-Qin; Yu Chang-Hong; Vierling John M(a)
AUTHOR ADDRESS: (a)Cedars-Sinai Med. Center, Hepatol., Suite 7511, 8700 Beverly Blvd., Los Angeles, CA 90048**USA
JOURNAL: Hepatology 18 (2):p270-274 1993
ISSN: 0270-9139
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 4/3/7 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

08404275 BIOSIS NO.: 000094121929
IN-SITU HYBRIDIZATION STUDIES IN **HEPATITIS A** INFECTION
AUTHOR: TAYLOR G M; GOLDIN R D; KARAYIANNIS P; THOMAS H C
AUTHOR ADDRESS: DEP. HISTOPATHOLOGY, ST. MARY'S HOSP. MED. SCH., NORFOLK PLACE, PADDINGTON, LONDON W2 1PG, UK.
JOURNAL: HEPATOLOGY 16 (3). 1992. 642-648. 1992
FULL JOURNAL NAME: HEPATOLOGY (Baltimore)
CODEN: HPTLD
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

- end of record -

?
Display 4/3/8 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

06747477 BIOSIS NO.: 000088056908
EXPRESSION OF **A HEPATITIS** B VIRUS TRANSCRIPT CONTAINING FUSED MITOCHONDRIAL-LIKE DOMAINS IN HUMAN HEPATOMA CELLS
AUTHOR: KOCH I; HOFSCHNEIDER P H; KOSHY R
AUTHOR ADDRESS: MAX-PLANCK-INST. FUER BIOCHEMIE, MARTINSRIED BEI MUENCHEN, WEST GERMANY.
JOURNAL: VIROLOGY 170 (2). 1989. 591-594. 1989
FULL JOURNAL NAME: Virology
CODEN: VIRLA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

- end of record -

?
Display 4/3/9 (Item 1 from file: 154)
DIALOG(R)File 154:Medline(R)

07911017 93119276 PMID: 8380325
Proteins specifically binding to the 3' untranslated region of **hepatitis A** virus RNA in persistently infected cells.
Nuesch JP; Weitz M; Siegl G
Yale New Haven Hospital, Connecticut.
Archives of virology (AUSTRIA) 1993, 128 (1-2) p65-79, ISSN 0304-8608 Journal Code: 8L7
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

- end of record -

?
Display 4/3/10 (Item 2 from file: 154)
DIALOG(R)File 154:Medline(R)

06999644 92185479 PMID: 1312125
Typing hepatitis C virus by polymerase chain reaction with type-specific primers: application to clinical surveys and tracing infectious sources.
Okamoto H; Sugiyama Y; Okada S; Kurai K; Akahane Y; Sugai Y; Tanaka T; Sato K; Tsuda F; Miyakawa Y; et al
Immunology Division, Jichi Medical School, Tochigi-Ken, Japan.
Journal of general virology (ENGLAND) Mar 1992, 73 (Pt 3) p673-9, ISSN 0022-1317 Journal Code: I9B
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

- end of record -

?
Display 4/3/11 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

08118163 Genuine Article#: 248HB No. References: 69
Title: Hepatitis C virus: an overview of current approaches and progress
Author(s): Walker MA (REPRINT)

Corporate Source: BRISTOL MYERS SQUIBB CO,PHARMACEUT RES INST, 5 RES PKWY/WALLINGFORD//CT/06492 (REPRINT)
Journal: DRUG DISCOVERY TODAY, 1999, V4, N11 (NOV), P518-529
ISSN: 1359-6446 Publication date: 19991100
Publisher: ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND
Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

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Display 4/3/12 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

05854109 Genuine Article#: XB883 No. References: 27
Title: Properties of hepatitis delta virus ribozyme, which consists of three RNA oligomer strands
Author(s): Sakamoto T; Tanaka Y; Kuwabara T; Kim MH; Kurihara Y; Katahira M ; Uesugi S (REPRINT)
Corporate Source: YOKOHAMA NATL UNIV,FAC ENGN, DEPT BIOENGN, HODOGAYA KU, 79-5 TOKIWADAI/YOKOHAMA/KANAGAWA 240/JAPAN/ (REPRINT); YOKOHAMA NATL UNIV,FAC ENGN, DEPT BIOENGN, HODOGAYA KU/YOKOHAMA/KANAGAWA 240/JAPAN/
Journal: JOURNAL OF BIOCHEMISTRY, 1997, V121, N6 (JUN), P1123-1128
ISSN: 0021-924X Publication date: 19970600
Publisher: JAPANESE BIOCHEMICAL SOC, ISHIKAWA BLDG-3F, 25-16 HONGO-5-CHOME, BUNKYO-KU, TOKYO 113, JAPAN
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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Display 4/3/13 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

05598460 Genuine Article#: WJ848 No. References: 44
Title: A one-tube method of reverse Transcription-PCR to efficiently amplify a 3-kilobase region from the RNA polymerase gene to the poly(A) tail of small round-structured viruses (Norwalk-like viruses)
Author(s): Ando T (REPRINT) ; Monroe SS; Noel JS; Glass RI
Corporate Source: CTR DIS CONTROL & PREVENT,VIRAL GASTROENTERITIS SECT, DIV VIRAL & RICKETTSIAL DIS/ATLANTA//GA/30333 (REPRINT)
Journal: JOURNAL OF CLINICAL MICROBIOLOGY, 1997, V35, N3 (MAR), P570-577
ISSN: 0095-1137 Publication date: 19970300
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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?
Display 4/3/14 (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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05540869 Genuine Article#: WF234 No. References: 45
Title: In vitro mutational and inhibitory analysis of the cis-acting translational elements within the 5' untranslated region of coxsackievirus B3: Potential targets for antiviral action of **antisense** oligomers
Author(s): Yang DC (REPRINT) ; Wilson JE; Anderson DR; Bohunek L; Cordeiro

C; Kandolf R; McManus BM
Corporate Source: UNIV BRITISH COLUMBIA,ST PAULS HOSP, DEPT PATHOL & LAB MED, CARDIOVASC RES LAB, MCDONALD RES WING/VANCOUVER/BC V6Z 1Y6/CANADA/ (REPRINT); UNIV TUBINGEN,INST PATHOL/D-72074 TUBINGEN//GERMANY/
Journal: VIROLOGY, 1997, V228, N1 (FEB 3), P63-73
ISSN: 0042-6822 Publication date: 19970203
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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? d s4/9/14
Display 4/9/14 (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

05540868 Genuine Article#: WF234 Number of References: 45
Title: In vitro mutational and inhibitory analysis of the cis-acting translational elements within the 5' untranslated region of coxsackievirus B3: Potential targets for antiviral action of **antisense** oligomers
Author(s): Yang DC (REPRINT) ; Wilson JE; Anderson DR; Bohunek L; Cordeiro C; Kandolf R; McManus BM
Corporate Source: UNIV BRITISH COLUMBIA,ST PAULS HOSP, DEPT PATHOL & LAB MED, CARDIOVASC RES LAB, MCDONALD RES WING/VANCOUVER/BC V6Z 1Y6/CANADA/ (REPRINT); UNIV TUBINGEN,INST PATHOL/D-72074 TUBINGEN//GERMANY/
Journal: VIROLOGY, 1997, V228, N1 (FEB 3), P63-73
ISSN: 0042-6822 Publication date: 19970203
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495
Language: English Document Type: ARTICLE
Geographic Location: CANADA; GERMANY

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Display 4/9/14 (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

Subfile: CC LIFE--Current Contents, Life Sciences
Journal Subject Category: VIROLOGY
Abstract: The 5' untranslated region (5'UTR) of coxsackievirus B3 (CVB3) RNA forms ahighly ordered secondary structure that has been implicated in controllinginitiation of viral translation by internal ribosomal entry. To test this hypothesis, synthetic bicistronic RNAs, with all or part of the 5'UTR in the intercistronic space, were translated in rabbit reticulocyte lysates. In the presence of an upstream cistron, the chloramphenicol acetyltransferase gene, designed to block ribosomal scanning, the CVB3 5'UTR was capable of directing the internal initiation of translation of the downstream reporter gene (Pi), confirming the presence of an internal ribosomal entry site (IRES). This finding was further supported by the data on predicted secondary structures within the 5'UTR. Of special note, analysis of various deletion mutants demonstrated that the IRES of CVB3 is located roughly at stem-loops G, H, and I spanning nucleotides (nt) 529 and 630. The region from nt 1 to 63 (stem-loop A) also appears important, and it may

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Display 4/9/14 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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be an essential bindingsite for translation initiation factors. Based on these findings, in vitrotranslation inhibition assays using RNA fragments of the 5'UTR as inhibitor were performed. Both **antisense** and sense RNA segments transcribed from these two cis acting regions and the surrounding sequence of the initiation codon AUG showed strong inhibition of viral protein synthesis. **Antisense** molecules may inhibit translation by blocking ribosome and initiation factor binding within the 5'UTR via specific hybridization to their viral RNA target sequences, while sense sequences may function by competing with viral RNAfor ribosomes and/or translation initiation factors. These cis-acting translational elements may serve as potential targets for the antiviral action of oligomers. (C) 1997 Academic Press.
Identifiers--KeyWord Plus(R): ENCEPHALOMYOCARDITIS VIRUS-RNA; INTERNAL RIBOSOME ENTRY; MOUTH-DISEASE VIRUS; NONTRANSLATED REGION; POLIOVIRUS RNA; NONCODING REGION; SECONDARY STRUCTURE; FUNCTIONAL-ANALYSIS; PROTEIN-SYNTHESIS; INITIATION SITE

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? s s1 and fail? and antisense
          60916  S1
        2791313  FAIL?
         141760  ANTISENSE
      S5      12  S1 AND FAIL? AND ANTISENSE
? d s5/3/1-12
      Display 5/3/1     (Item 1 from file: 5)
DIALOG(R)File   5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

09321307   BIOSIS NO.: 199497329677
In situ hybridization studies of hepatitis A viral RNA in
  patients with acute hepatitis A.
AUTHOR: Taylor Michael(a); Goldin Robert D; Ladva Suresh; Scheuer Peter J;
  Thomas Howard C
AUTHOR ADDRESS: (a)Dep. Histopathol., St. Mary's Hosp. Med. Sch., Norfolk
  Place, Paddington, London W2 1PG**UK
JOURNAL: Journal of Hepatology  20 (3):p380-387 1994
ISSN: 0168-8278
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

                              - end of record -

?
      Display 5/3/2     (Item 1 from file: 55)
DIALOG(R)File  55:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

09321307   BIOSIS NO.: 199497329677
In situ hybridization studies of hepatitis A viral RNA in
  patients with acute hepatitis A.
AUTHOR: Taylor Michael(a); Goldin Robert D; Ladva Suresh; Scheuer Peter J;
  Thomas Howard C
AUTHOR ADDRESS: (a)Dep. Histopathol., St. Mary's Hosp. Med. Sch., Norfolk
  Place, Paddington, London W2 1PG**UK
JOURNAL: Journal of Hepatology  20 (3):p380-387 1994
ISSN: 0168-8278
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DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?
Display 5/3/3 (Item 1 from file: 154)
DIALOG(R)File 154:Medline(R)

08181586 94284584 PMID: 8014450
In situ hybridization studies of **hepatitis A** viral RNA in patients with acute **hepatitis A**.
Taylor M; Goldin RD; Ladva S; Scheuer PJ; Thomas HC
Department of Histopathology, St. Mary's Hospital Medical School, Imperial College of Science, Technology and Medicine, London, UK.
Journal of hepatology (DENMARK) Mar 1994, 20 (3) p380-7, ISSN 0168-8278 Journal Code: IBS
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

- end of record -

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Display 5/3/4 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08181586 94284584 PMID: 8014450
In situ hybridization studies of **hepatitis A** viral RNA in patients with acute **hepatitis A**.
Taylor M; Goldin RD; Ladva S; Scheuer PJ; Thomas HC
Department of Histopathology, St. Mary's Hospital Medical School, Imperial College of Science, Technology and Medicine, London, UK.
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Languages: ENGLISH
Document type: Journal Article
Record type: Completed

- end of record -

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Display 5/3/5 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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03780001 Genuine Article#: QE573 No. References: 156
Title: TREATMENT AND PREVENTION OF CHRONIC VIRAL-HEPATITIS
Author(s): DUSHEIKO GM
Corporate Source: ROYAL FREE HOSP,POND ST/LONDON NW2 2Q3//ENGLAND/; UNIV LONDON SCH MED/LONDON NW2 2Q3//ENGLAND/
Journal: PHARMACOLOGY & THERAPEUTICS, 1995, V65, N1, P47-73
ISSN: 0163-7258
Language: ENGLISH Document Type: REVIEW (Abstract Available)

- end of record -

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Display 5/3/6 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

03231349 Genuine Article#: NN430 No. References: 19
Title: IN-SITU HYBRIDIZATION STUDIES OF **HEPATITIS-A** VIRAL-RNA IN PATIENTS WITH ACUTE **HEPATITIS-A**
Author(s): TAYLOR M; GOLDIN RD; LADVA S; SCHEUER PJ; THOMAS HC
Corporate Source: UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED,ST MARYS HOSP,SCH MED,DEPT HISTOPATHOL,NORFLOK PL/LONDON W2 1PG//ENGLAND/; UNIV LONDON ROYAL FREE HOSP,DEPT HISTOPATHOL/LONDON//ENGLAND/; UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED,ST MARYS HOSP,SCH MED,DEPT MED/LONDON W2 1PG//ENGLAND/
Journal: JOURNAL OF HEPATOLOGY, 1994, V20, N3 (MAR), P380-387
ISSN: 0168-8278
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

- end of record -

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Display 5/3/7 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE

05676319 EMBASE No: 1994075843
In situ hybridization studies of **hepatitis A** viral RNA in patients with acute **hepatitis A**
Taylor M.; Goldin R.D.; Ladva S.; Scheuer P.J.; Thomas H.C.
Department of Histopathology, St. Mary's Hospital Medical School, Norfolk Place,Paddington, London W2 1PG United Kingdom
Journal of Hepatology (J. HEPATOL.) (Denmark) 1994, 20/3 (380-387)
CODEN: JOHEE ISSN: 0168-8278
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

- end of record -

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Display 5/3/8 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus

02358283 JICST ACCESSION NUMBER: 95A0257289 FILE SEGMENT: JICST-E
Forefront of viral hepatitis for clinicians. Molecularly biological approach. Present state and prospect of viral hepatitis.
WATANABE AKIHARU (1)
(1) Toyama Med. and Pharm. Univ., Fac. of Med.
Mod Phys, 1995, VOL.15,NO.1, PAGE.3-7, REF.5
JOURNAL NUMBER: X0122ABZ ISSN NO: 0913-7963
UNIVERSAL DECIMAL CLASSIFICATION: 616.3 578.72/.76 575.116
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Review article
MEDIA TYPE: Printed Publication

- end of record -

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Display 5/3/9 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text

04048414 H.W. WILSON RECORD NUMBER: BGSA99048414 (USE FORMAT 7 FOR FULLTEXT)
The unmet challenges of hepatitis C.
Di Bisceglie, Adrian M

Bacon, Bruce R
Scientific American v. 281 no4 (Oct. 1999) p. 80-5
SPECIAL FEATURES: bibl il ISSN: 0036-8733
LANGUAGE: English
COUNTRY OF PUBLICATION: United States
WORD COUNT: 4233

- end of record -

?
Display 5/3/10 (Item 2 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text

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      Set   Items   Description
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? s HAV or hepatitis (n) A

Processing
Processing
Processing
Processing
Processed  10 of  37 files ...
Processing
Processing
Processed  20 of  37 files ...
Completed processing all files
          12684  HAV
         610459  HEPATITIS
       61455325  A
          58573  HEPATITIS(N)A
      S1   60910  HAV OR HEPATITIS (N) A
? s s1 and treat? (5n) fail?

Processing
Processed  10 of  37 files ...
Processing
Processed  20 of  37 files ...
Completed processing all files
          60910  S1
       12918210  TREAT?
        2775239  FAIL?
         200572  TREAT?(5N)FAIL?
      S2     195  S1 AND TREAT? (5N) FAIL?
? s s2 and antisense

            195  S2
         141760  ANTISENSE
      S3       1  S2 AND ANTISENSE
? d s3/9/1

      Display 3/9/1     (Item 1 from file: 98)
DIALOG(R)File  98:General Sci Abs/Full-Text
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04048414    H.W. WILSON RECORD NUMBER: BGSA99048414  (THIS IS THE FULLTEXT)
The unmet challenges of hepatitis C.
Di Bisceglie, Adrian M
Bacon, Bruce R
Scientific American v. 281 no4 (Oct. 1999) p. 80-5
SPECIAL FEATURES: bibl il   ISSN: 0036-8733
 LANGUAGE:  English
COUNTRY OF PUBLICATION: United States
RECORD TYPE: Abstract; Fulltext   RECORD STATUS: Corrected or revised
record
WORD COUNT:  4233

ABSTRACT:  Today, almost 4 million people in America suffer from hepatitis
C, most of them without knowing it. When researchers first studied viral
hepatitis in the 1930s and 1940s, two distinct forms with different
patterns of transmission were identified. Later, these viral agents'
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Display 3/9/1 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
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signatures were identified and became known as **hepatitis A** and
B, respectively. When new tests became available for the viruses in the
1970s, a new strain was discovered and called non-A, non-B hepatitis, but
it was a further 15 years before Michael Houghton and his colleagues at
Chiron Corporation identified the hepatitis C virus. The writer discusses
how hepatitis C was discovered, how it is transmitted, how it causes
chronic liver **failure, treatments** that are currently available
for the disease, and the prospects for future treatments.

TEXT:
As recently as the late 1980s few people other than physicians had heard of hepatitis C, a slowly progressing viral infection that over a couple of decades can lead to liver failure or liver cancer. Today the condition is widely recognized as a huge public health concern. Some 1.8 percent of the U.S. adult population, almost four million people, are infected with the hepatitis C virus, most of them without knowing it. The virus is one of the major causes of chronic liver disease, probably

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accounting for even more cases than excessive alcohol use, and is the most common reason for liver transplants. Some 9,000 people die each year in the U.S. from complications of the infection, a number that is expected to triple by 2010. Information about the incidence of hepatitis C in other countries is less reliable, but it is clear that the virus is a major public health problem throughout the world.

Physicians, historians and military leaders have long recognized hepatitis--inflammation of the liver--as a cause of jaundice. This yellow discoloration of the whites of the eyes and skin occurs when the liver fails to excrete a pigment called bilirubin, which then accumulates in the body. In recent decades, however, the diagnosis of hepatitis has progressively improved, and physicians can now distinguish several distinct forms. At least five different viruses can cause the condition, as can drugs and toxins such as alcohol.

Researchers first studied viral hepatitis in the 1930s and 1940s in settings where jaundice was common, such as prisons and mental institutions. They identified two distinct forms with different patterns of

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DIALOG(R)File 98:General Sci Abs/Full-Text
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transmission. One was transmitted by contact with feces of infected
individuals and was called infectious hepatitis, or **hepatitis A**
. The other appeared to be passed onl